

gas₁ gas₂ gas₃ gas₄ gas₅ gas₆ gas₇ gas₈ gas₉ gas₁₀ gas₁₁ gas₁₂ gas₁₃ gas₁₄

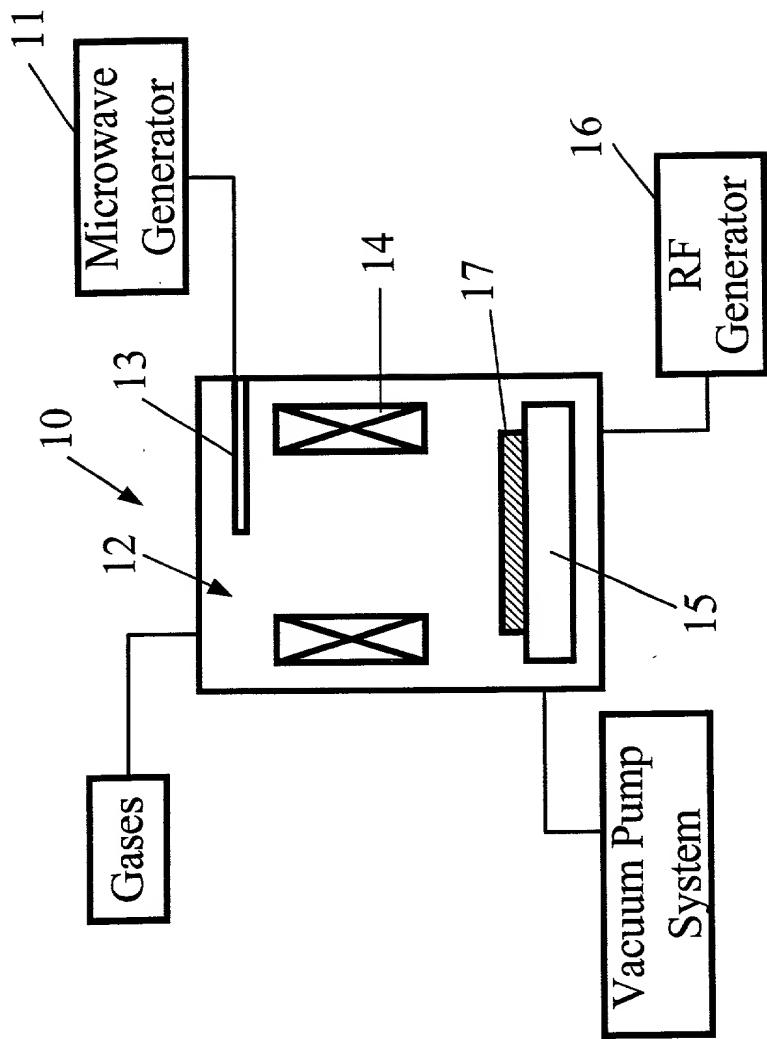


Figure 1

optical properties of the layers as
if $\frac{d_{\text{InP}}}{d_{\text{InGaAs}}} \frac{d_{\text{InGaAs}}}{d_{\text{InGaAsP}}} \frac{d_{\text{InGaAsP}}}{d_{\text{InGaAs}}} = 1$

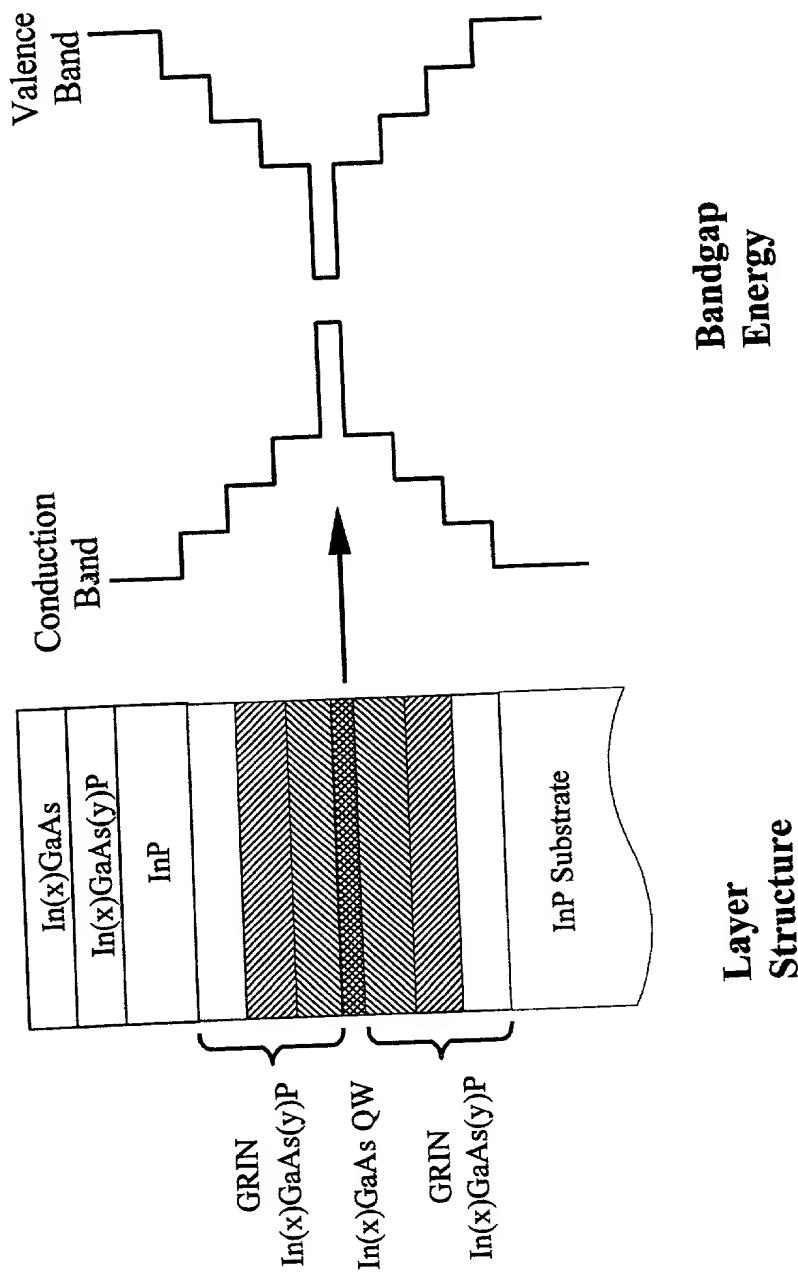


Figure 2

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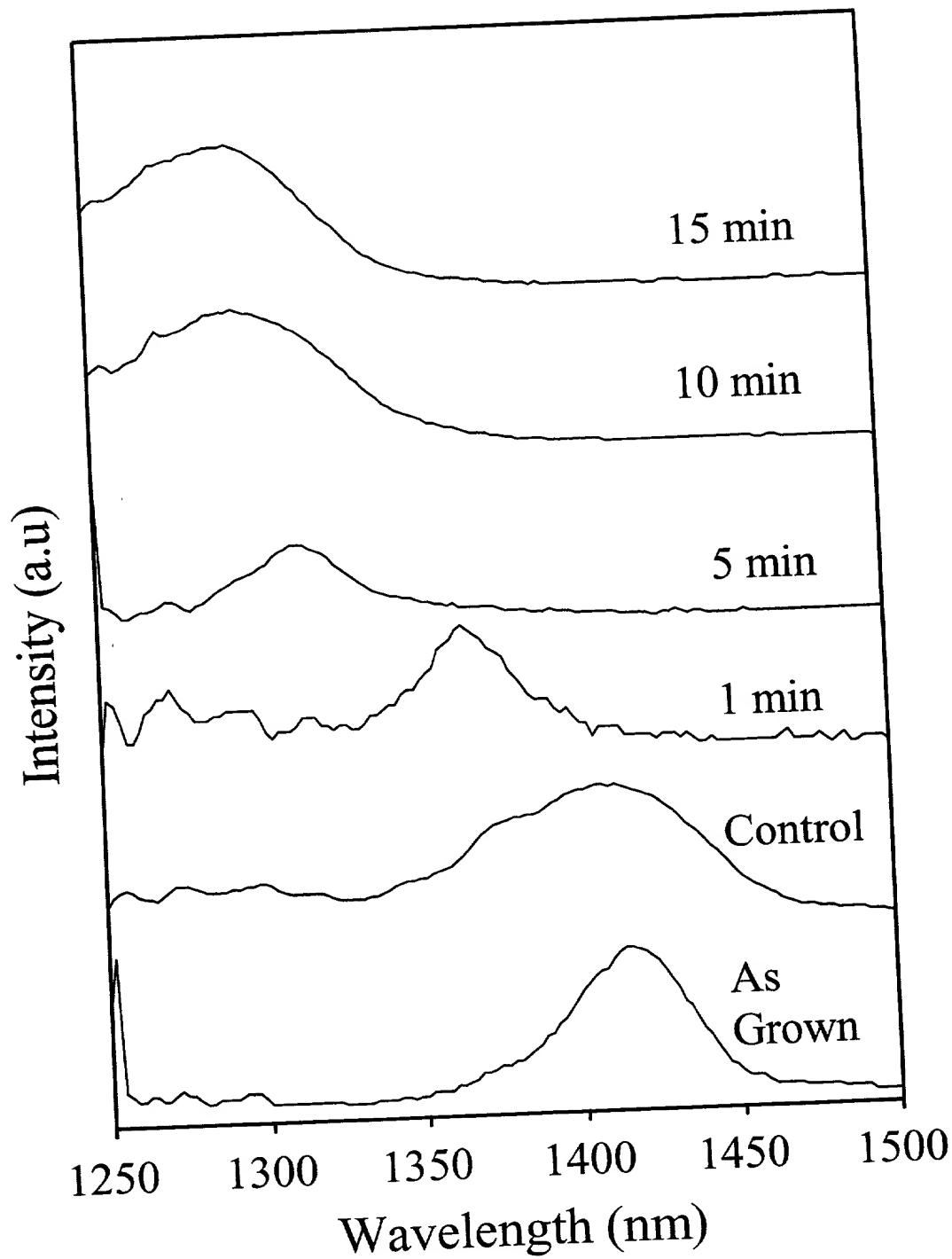


Figure 3A

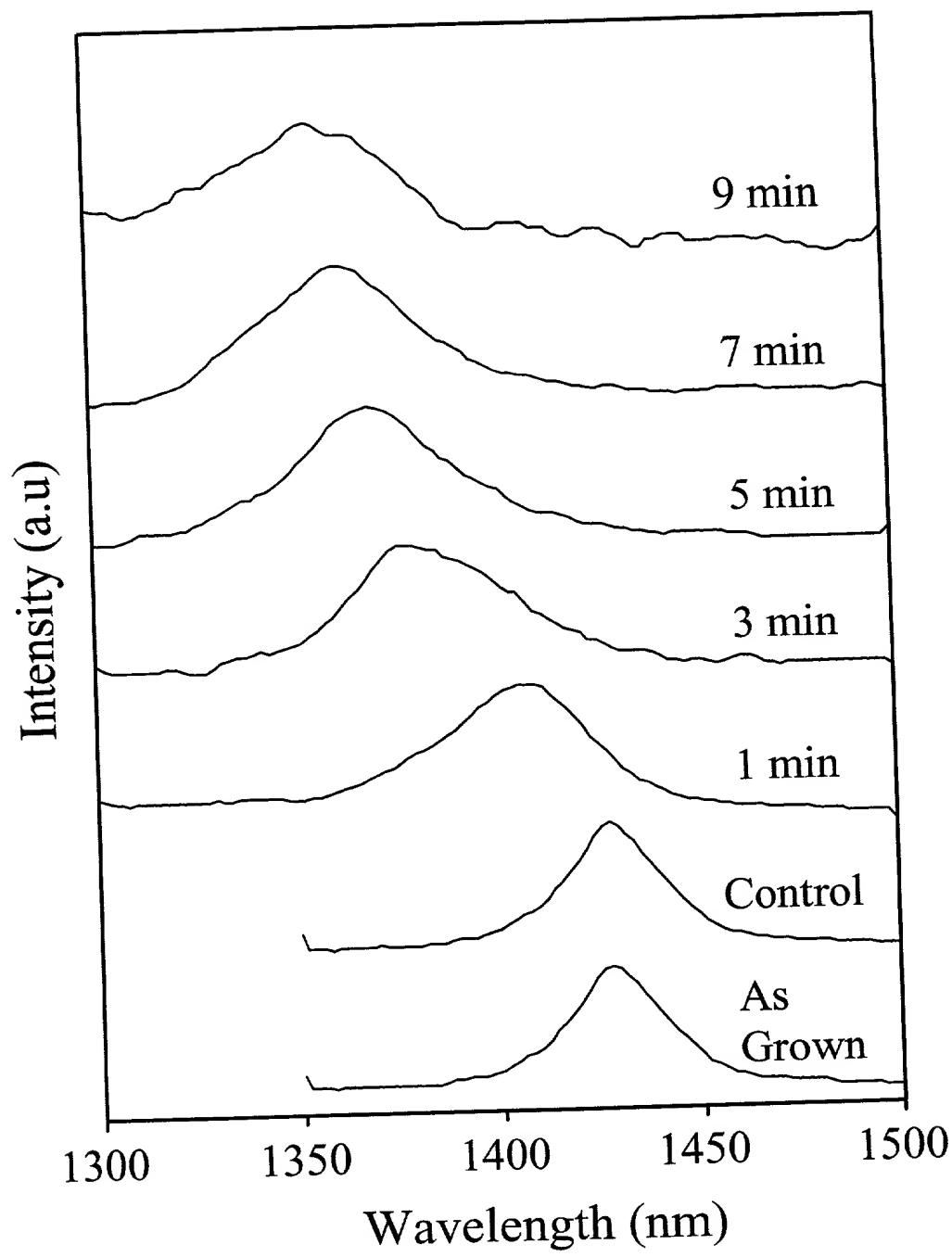


Figure 3B

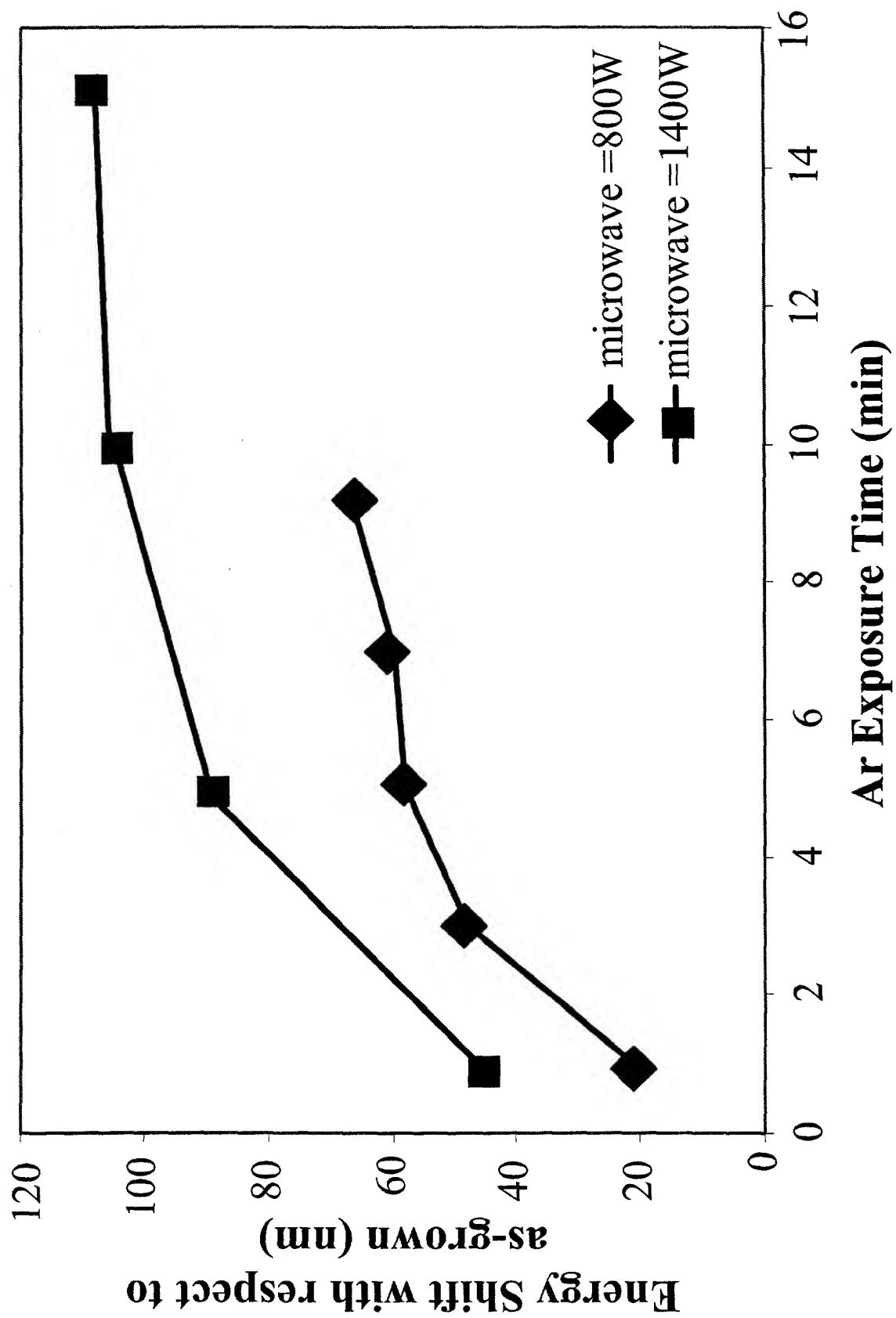


Figure 4

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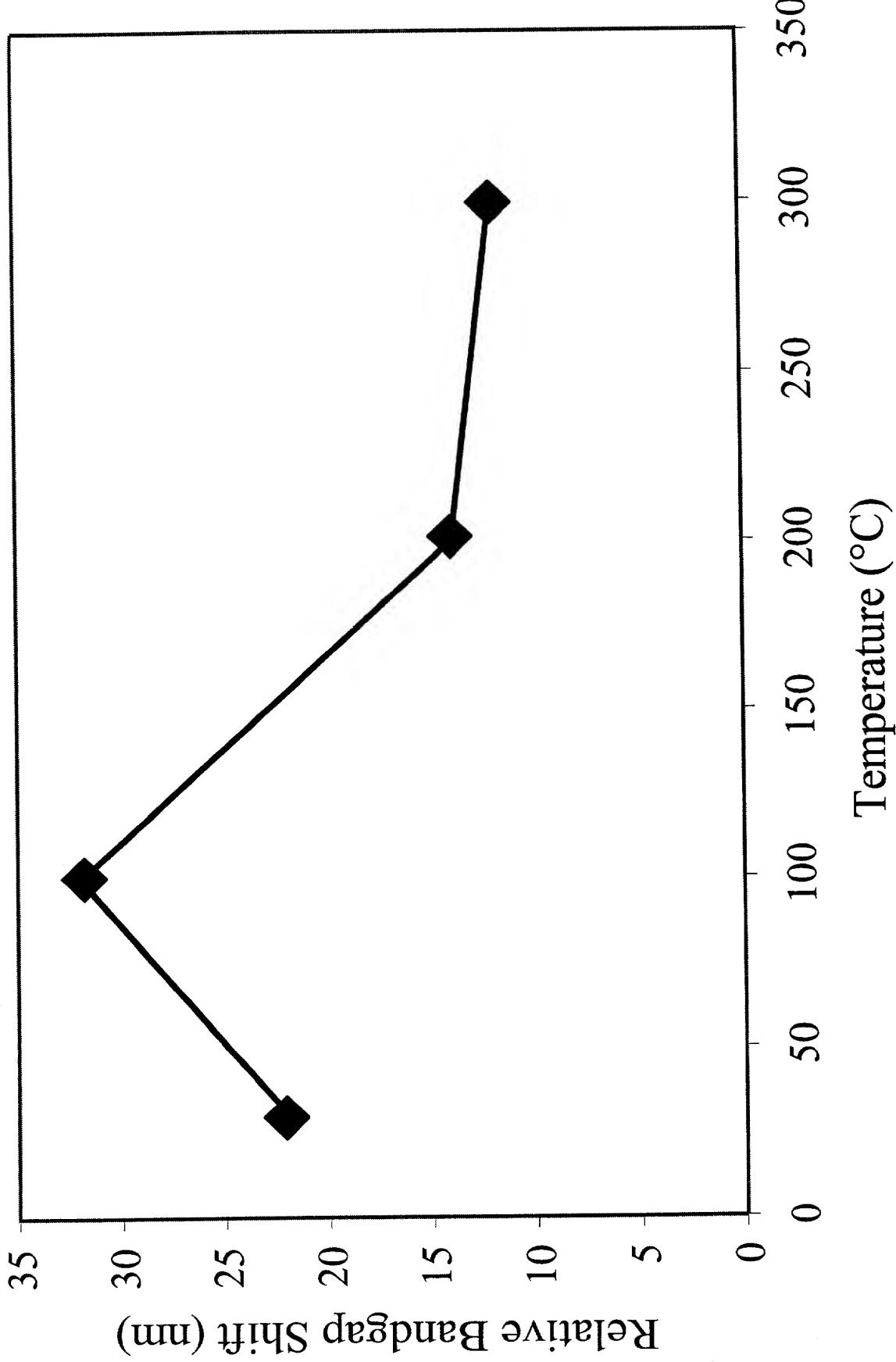
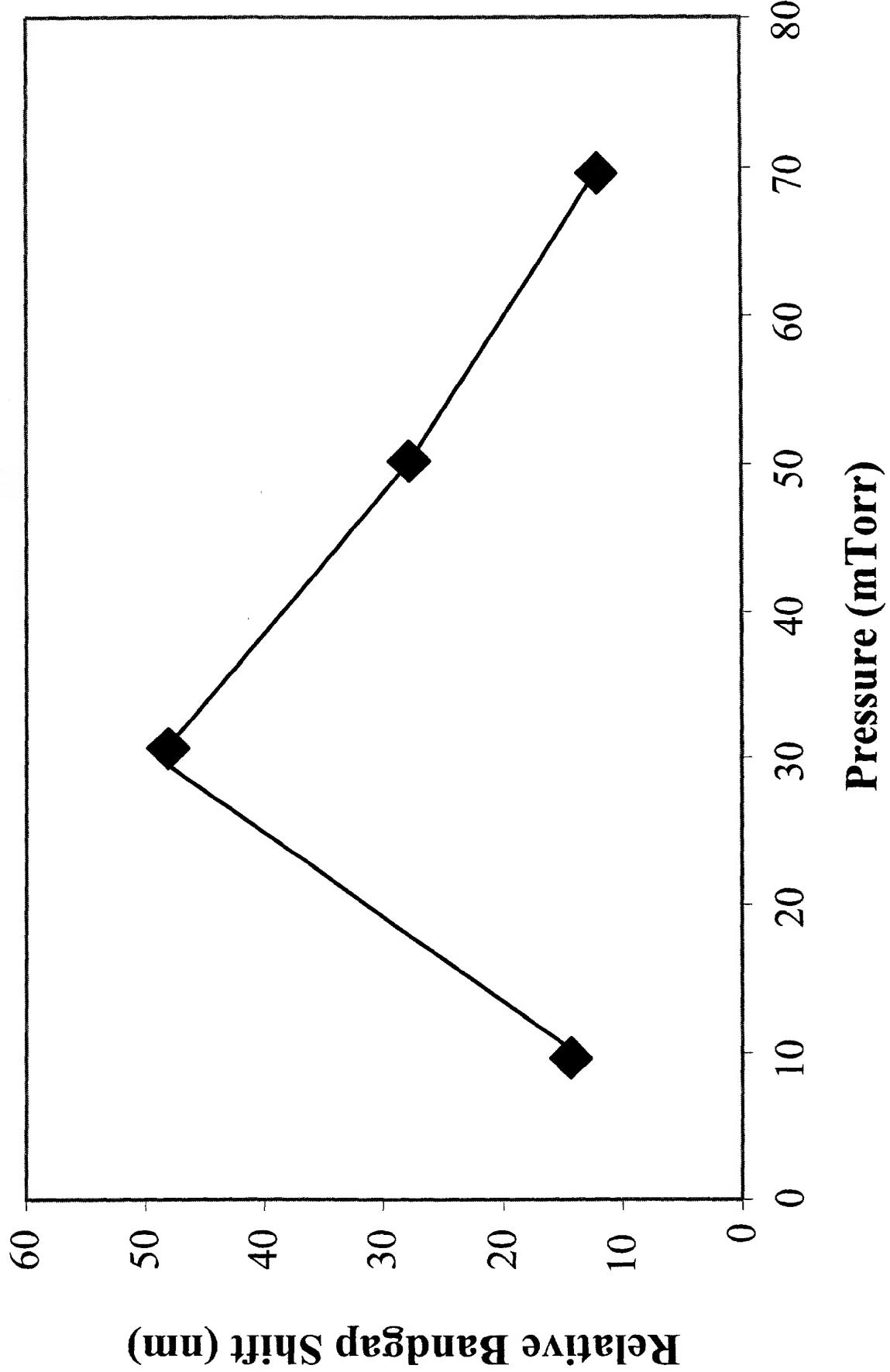


Figure 5

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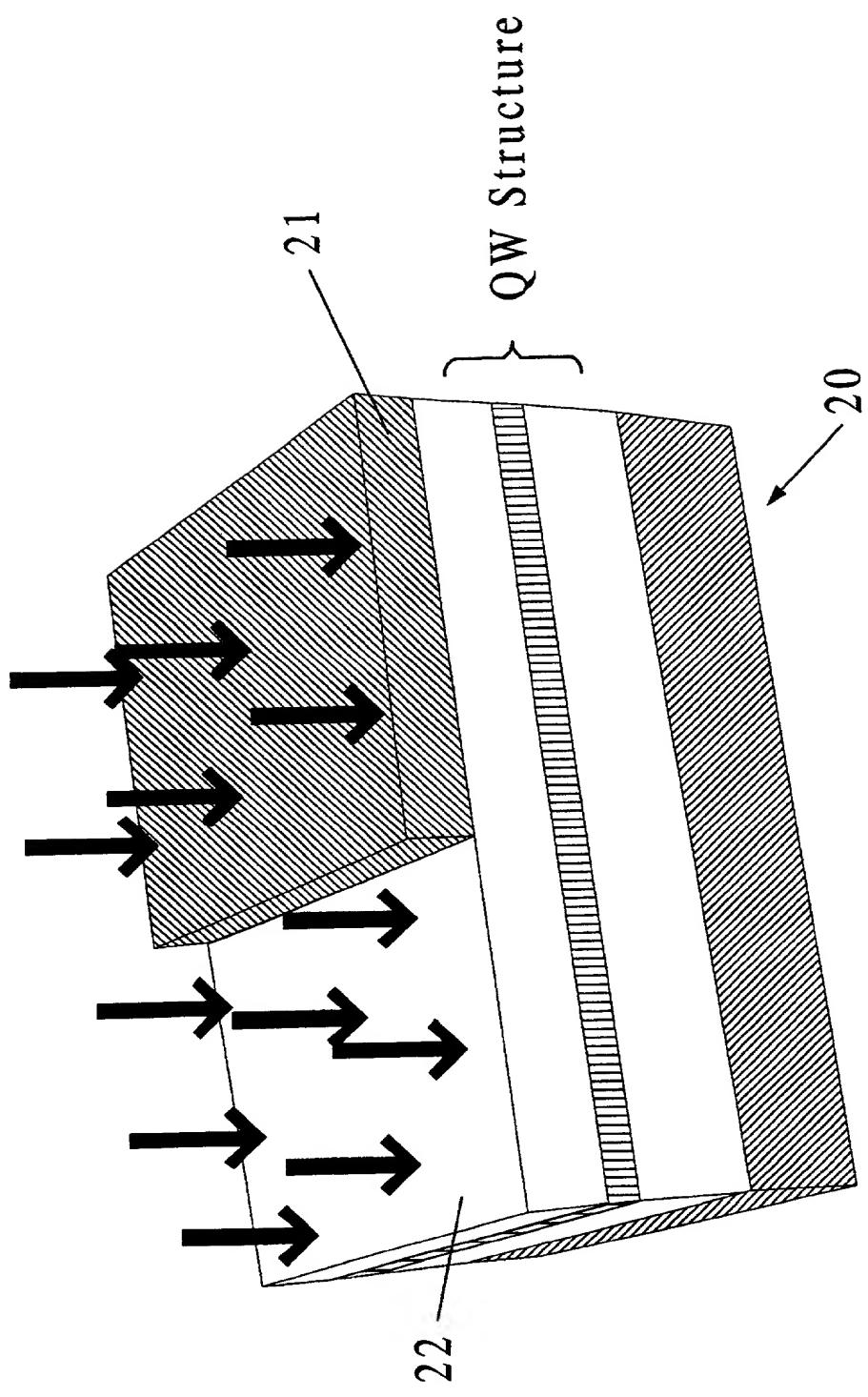


Figure 7

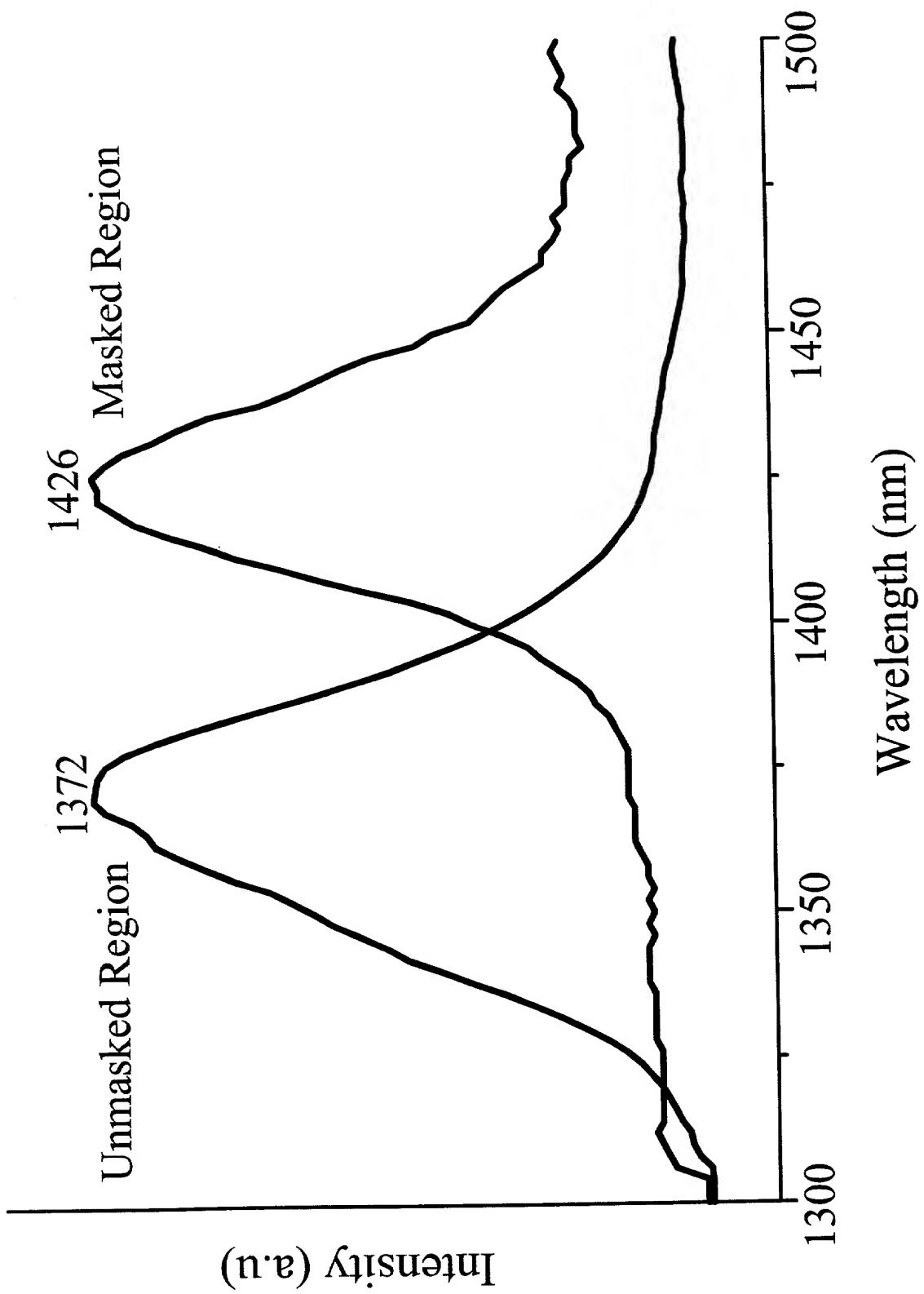


Figure 8

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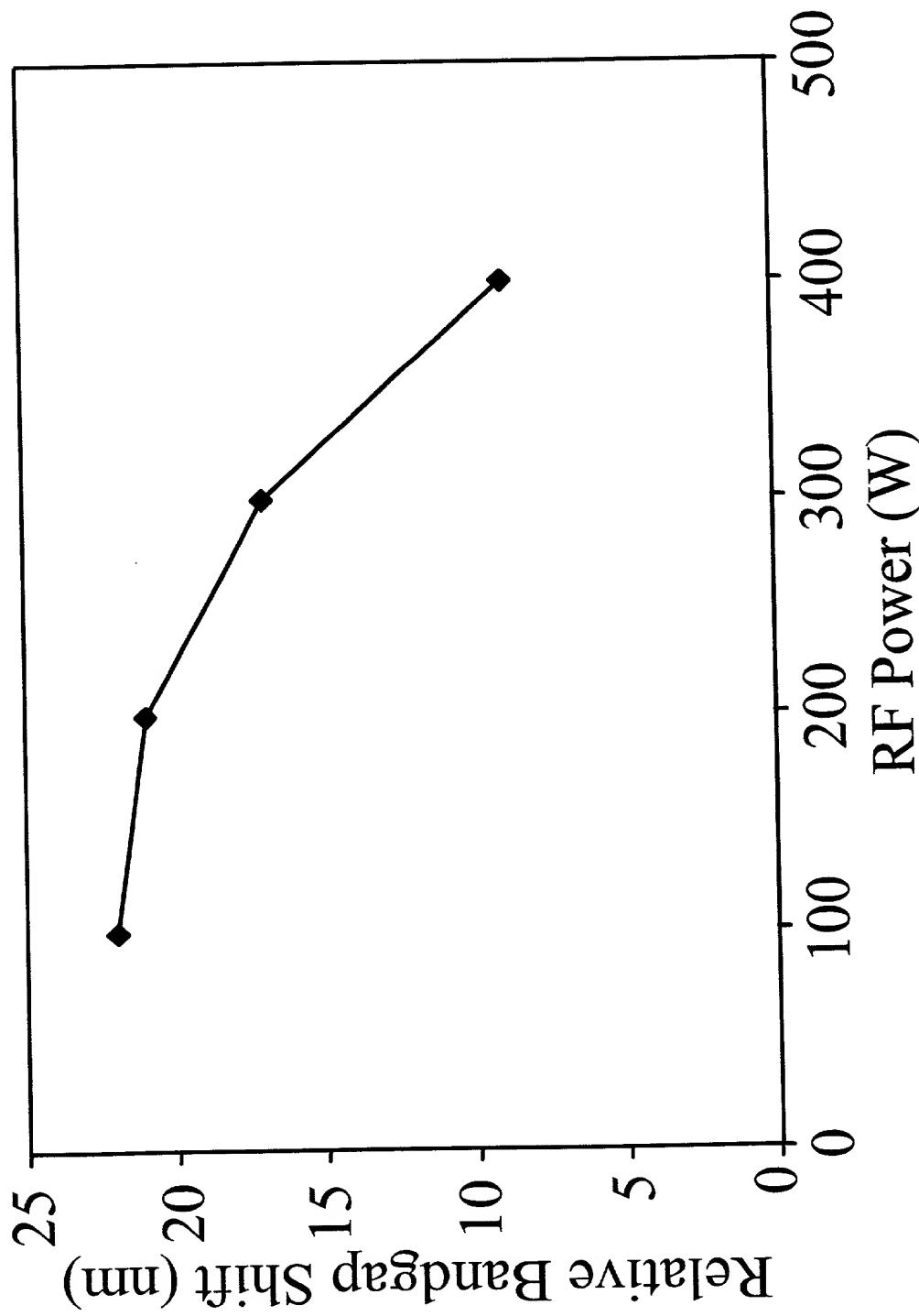
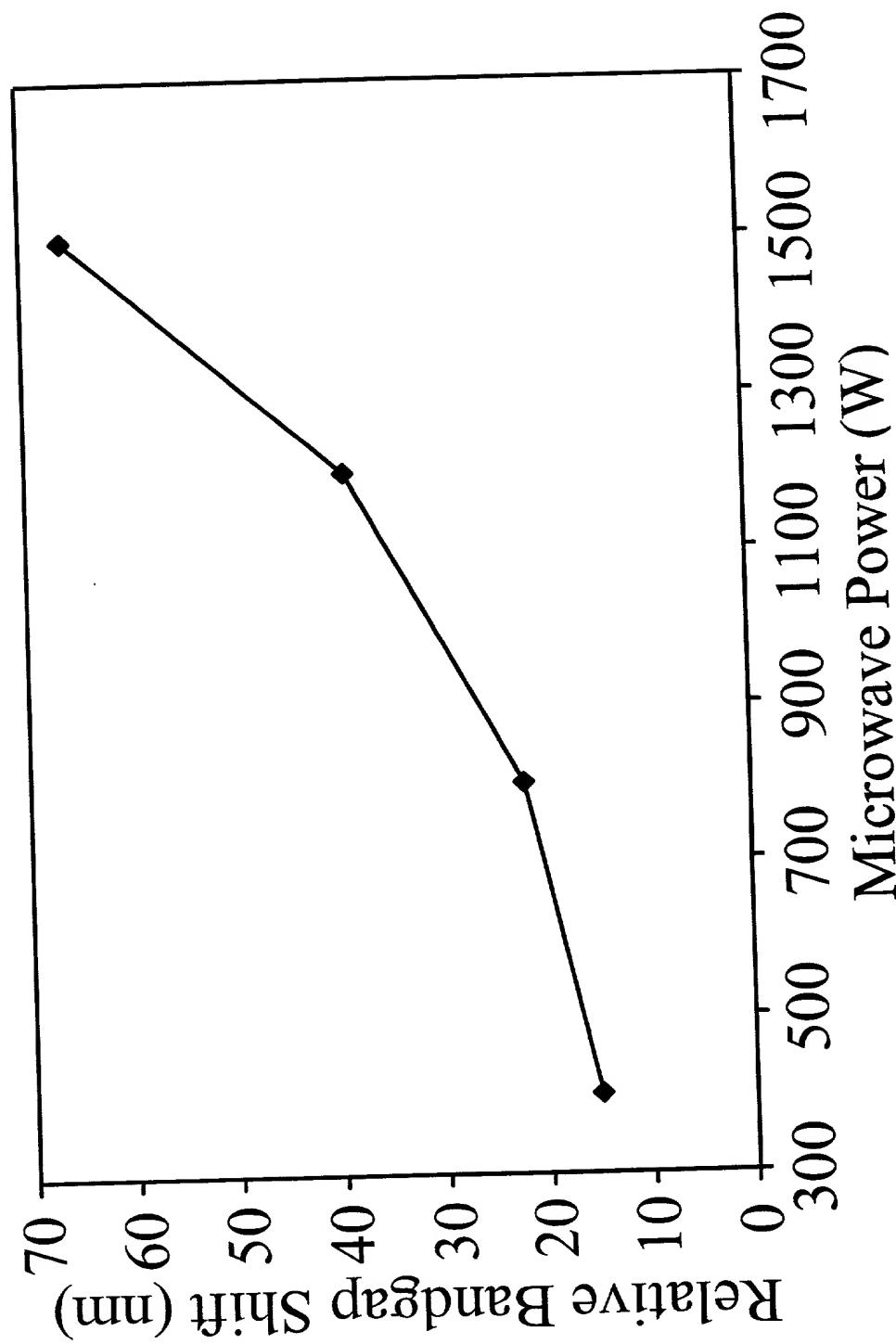


Figure 9

Figure 10



With SiO_2 removed With SiO_2 intact

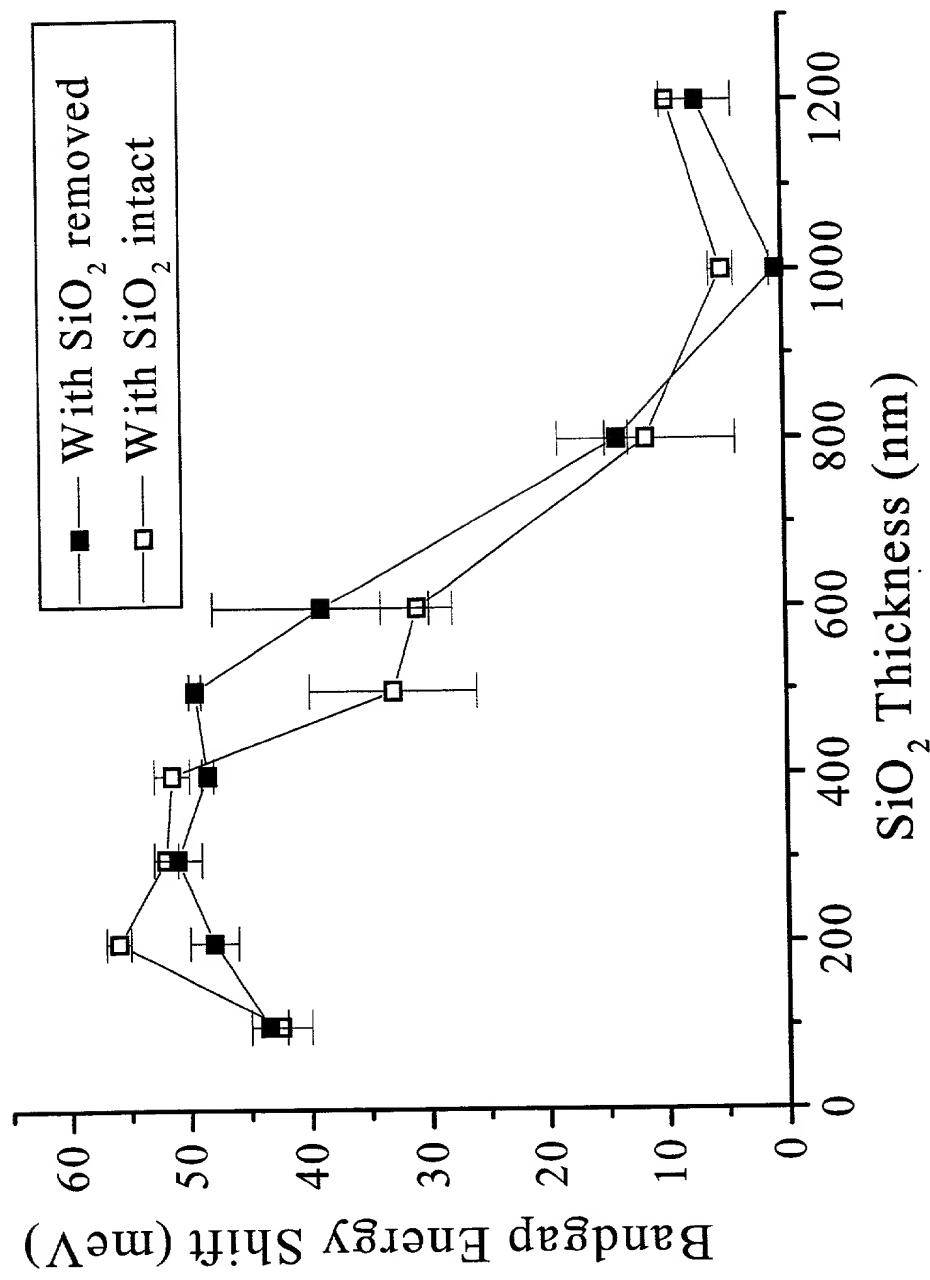


Figure 11

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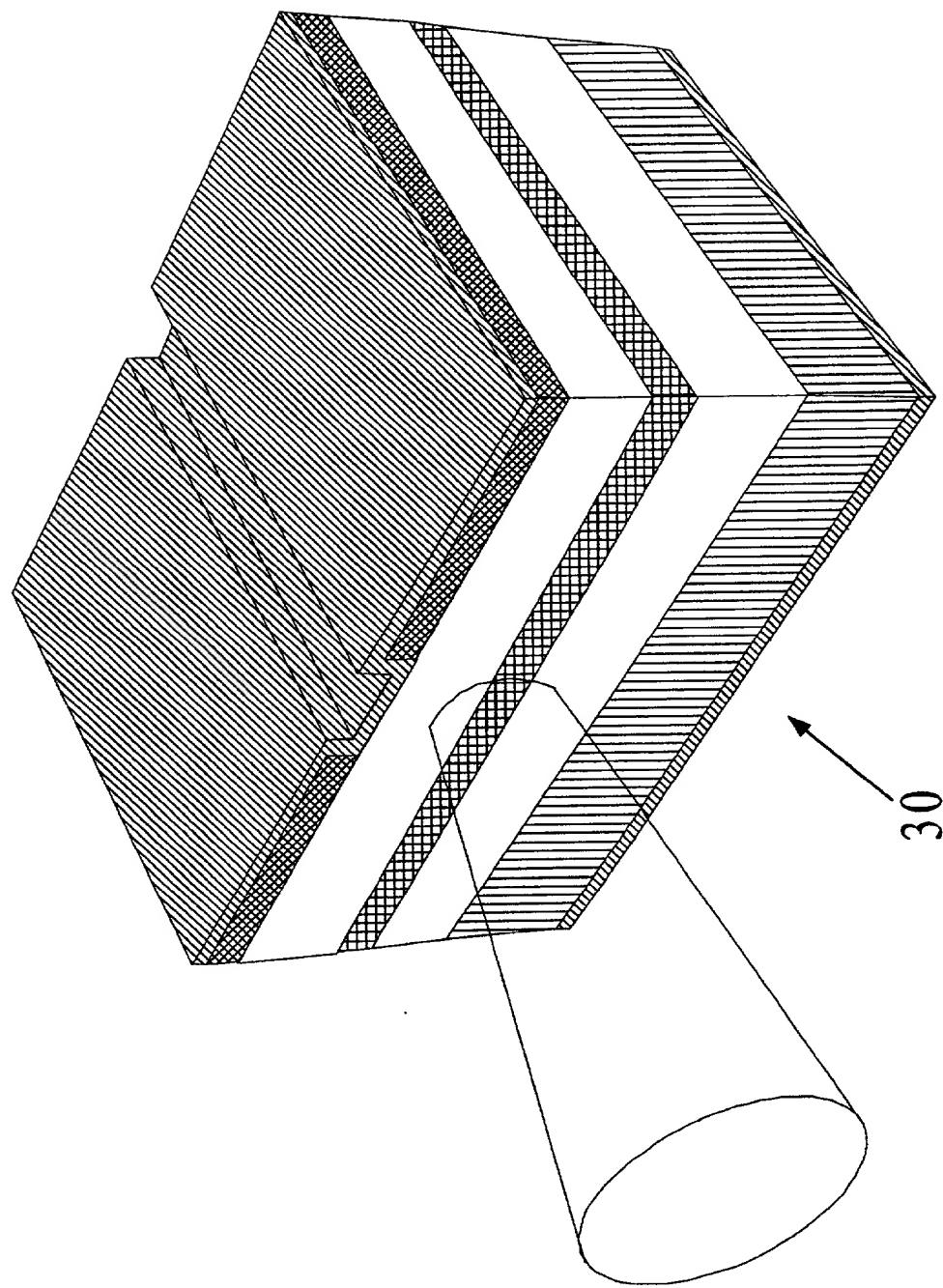


Figure 12

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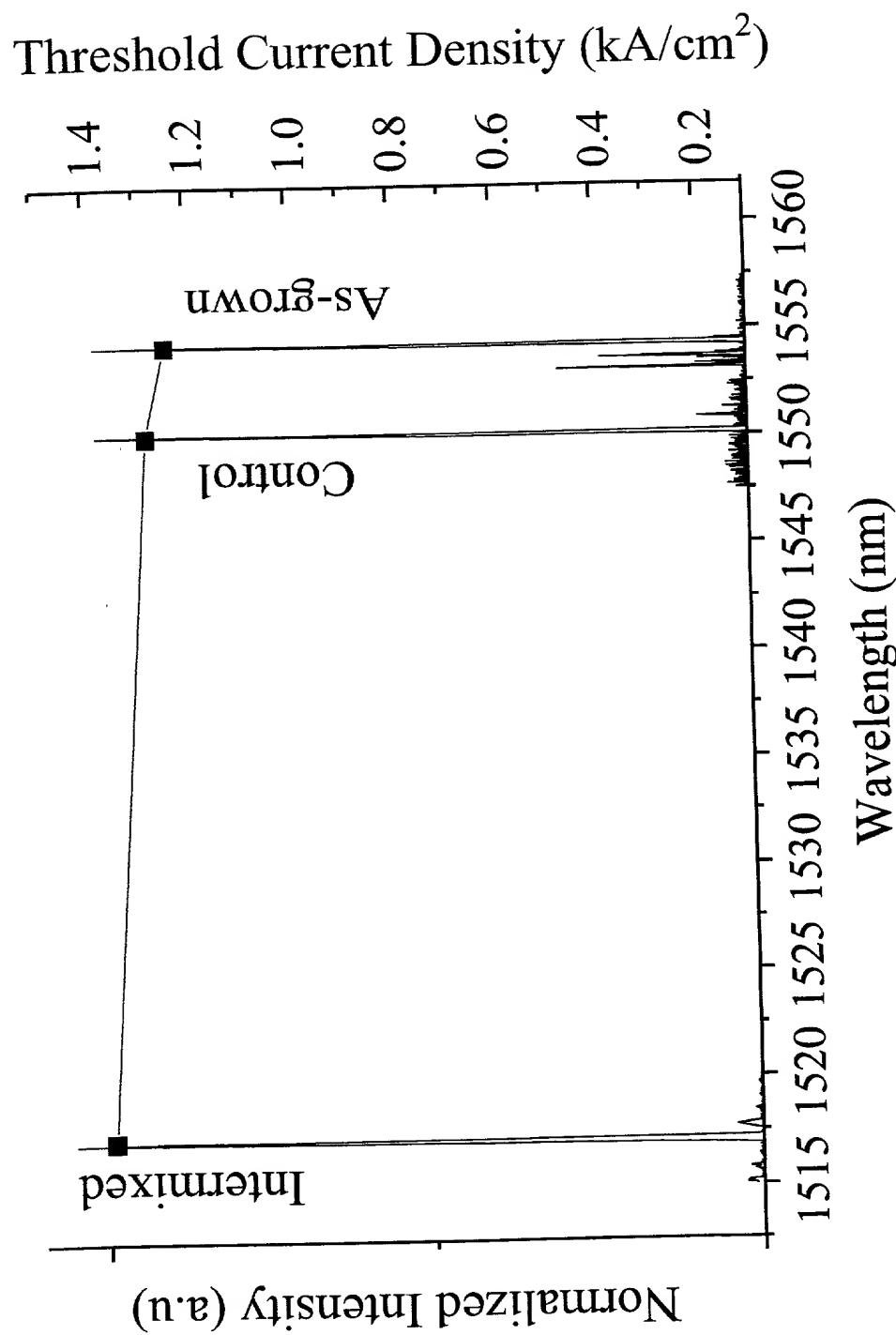


Figure 13